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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Werner et al.

Serial No.: 10/821,765

Group Art Unit: 2821

Filed: April 9, 2004

Examiner:

For: PIXELIZED FREQUENCY SELECTIVE SURFACES FOR RECONFIGURABLE
ARTIFICIAL MAGNETICALLY CONDUCTING GROUND PLANES

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
WITHIN THREE MONTHS OF FILING OR BEFORE MAILING
OF FIRST OFFICE ACTION (37 CFR 1.97(b))**

U.S. Patent and Trademark Office
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office Action on the merits, whichever event occurs last. 37 CFR 1.97(b).

Date: October 7, 2004

Tel. No.: 734/913-9300

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CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Date: October 7, 2004

Ann K. Andrusiak

GIFFORD, KRASS, GROH, SPRINKLE, ANDERSON & CITKOWSKI, P.C. 280 N. OLD WOODWARD AVENUE, STE. 400, BIRMINGHAM, MICHIGAN 48009-5394 (248) 647-6007



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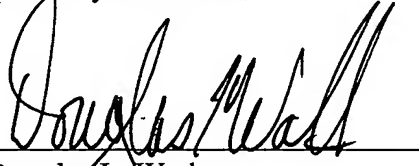
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Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. §1.56, it is respectfully requested that this Information Disclosure Statement be entered and the references listed on attached Form PTO-1449 be considered by the Examiner and made of record.

In accordance with 37 C.F.R. §1.97(g), this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possible material information as defined in 37 C.F.R. §1.56(a) exists. In accordance with 37 C.F.R. §1.97(h) this Information Disclosure Statement is not to be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56(b).

Respectfully submitted,

By 
Douglas L. Wathen
Reg. No. 41,369

Date: October 5, 2004

GIFFORD, KRASS, GROH, SPRINKLE, ANDERSON & CITKOWSKI, P.C. 280 N. OLD WOODWARD AVENUE, STE. 400, BIRMINGHAM, MICHIGAN 48009-5394 (248) 647-6006

<p style="text-align: center;">INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p> <div style="position: absolute; top: 50px; left: 50px; border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center;"> <p>PATENT & TRADEMARK OFFICE</p> <p>OCT 12 2004</p> </div>	ATTY DOCKET NO. PST-12302/36	APPLICATION NO. 10/821,765
	APPLICANT(S) Werner et al.	
	FILING DATE 4/9/2004	GROUP ART UNIT 2821

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,690,327	2/10/2004	McKinzie, III et al.	343	700 MS	
	6,650,291	11/18/2003	West et al.	342	371	
	6,525,695	2/25/2003	McKinzie, III	343	756	
	6,512,494	1/28/2003	Diaz et al.	343	909	
	6,483,480	11/19/2003	Sievenpiper et al.	343	909	

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2004/0001021 A1	1/1/2004	Choo et al.	343	700 MS	
	2003/0112186 A1	6/19/2003	Sanchez et al.	343	700 MS	
	2002/0167457 A1	11/14/2002	McKinzie, III et al.	343	909	
	2002/0167456 A1	11/14/2002	McKinzie, III et al.	343	909	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
WO 94/00892 A1	1/6/1994	PCT			✓	
WO 02/089256 A1	11/7/2002	PCT			✓	
GB 2 253 519 A	9/9/1992	United Kingdom			✓	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

			D. Sievenpiper, L. Zhang, R. Broas, N. Alexopolous, E. Yablonovitch, "High-Impedance Electromagnetic Surfaces with a Forbidden Frequency Band," IEEE Transactions on Microwave Theory and Techniques, Vol. 47, No. 11, November 1999 (pp. 2059-2074)
			F. Yang, K. Ma, Y. Qian, T. Itoh, "A Uniplanar Compact Photonic-Bandgap (UC-PBG) Structure and Its Applications for Microwave Circuits," IEEE Transactions on Microwave Theory and Techniques, Vol. 47, No. 8, August 1999 (pp. 1509-1514)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,469,677	10/22/2002	Schaffner et al.	343	876	
	6,448,936	09/10/2002	Kopf et al.	343	767	
	6,417,807	7/9/2002	Hsu et al.	343	700 MS	
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	6,028,692	2/22/2000	Rhoads et al.	359	245	

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2001/0036217 A1	11/1/2001	Kopf et al.	372	92	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

			D. Kern and D. Werner, "A Genetic Algorithm Approach to the Design of Ultra-Thin Electromagnetic Bandgap Absorbers," Microwave and Optical Technology Letters, Vol. 38, No. 1, July 5, 2003 (pp. 61-64)
			D. Werner, D. Kern, P. Werner, M. Wilhelm, A. Monorchio, L. Lanuzza, "Advances in the Design Synthesis of Electromagnetic Bandgap Metamaterials," Progress in Electromagnetics Symposium 2003, Hawaii, October 13-16

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		D. Kern, D. Werner, M. Wilhelm, K. Church, "Genetically Engineered Multiband High-Impedance Frequency Selective Surfaces," Microwave and Optical Technology Letters, Vol. 38, No. 5, Septeber 5, 2003 (pp. 400-403)
		G. Legg, "Embedded Antennas Get the Signal," www.edn.com, August 8, 2002

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